

CR800 Series Frequency Shifting Repeater

This frequency Shifting type repeater is designed for IS-95A CDMA system. It is suitable for highway, rural and carrier congested urban applications.

Donor cell signal frequency is converted to other frequency* in repeater near unit for wireless transmission and re-converted back to original frequency in far end unit to provide coverage in far end area. Save fiber optic and microwave transmission cost.

SAW filter and Feed Forward technologies are used. Performance is low Noise, low Spurious, high Linearity, low Interference and high Reliability.

Built-in RS232 control port enables convenience field adjustment of repeater output power, gain and channel number. Optional remote control and monitoring system.(Via fixed line or wireless modem)

Packed in IP55 case. Optional outdoor IP66 version.

*Exact frequency subjected to different country law .



Part No.	CR800-36B-80CFC-M (Relay Unit) CR800-36B-80CFC-MWP (Relay Unit)	
Item	Frequency Conversion Unit (Relay Unit)	
Frequency Range	UL: 825~835MHz	DL: 870~880MHz
Input Channel Frequency	received channels from donor cell: assumed are CH 1,3,5,7	
Output Channel Frequency	converted and transmitting channels: assumed are CH a, b, c, d	
Frequency Converted	channel converted to 1.5-2.4 GHz or within DL band	
Bandwidth	1.23MHz	
Gain	60~100dB (with 2 dB step)	
Input Signal (Max)	Tx: - 75 ~ - 55dBm	Rx: - 120 ~ - 70dBm
Noise Figure	UL: < 4.5dB	DL: < 4.5dB
Output Power (Max)	UL: - 60 ~ - 20dBm/per carrier	DL: -20~20dBm/per carrier
Channel Numbers	1, 2 or 4 (optional)	
Spurious	in band: < - 60dBc at $f_o \pm 1.98\text{MHz}$, RBW 30KHz < - 45dBc at $f_o \pm 750\text{KHz}$, RBW 30KHz out band: - 36dBm(9KHz~1GHz) - 30dBm(1~12.75GHz) \leq -67dBm(890~915MHz)	
Pass Band Ripple	3dB	
Waveform Coefficient	UL: $\rho > 0.960$	DL: $\rho > 0.950$
Time Delay	< 10 μ s	
Impedance	50 Ω	
VSWR	< 1.3:1	
Connector	N-F	
Operating Temperature	- 30~60°C	
Power Supply	220V AC	
Dimensions	500 X 420 X 200mm	Weight 16kg
1. Different frequency range model available upon request. 2. Optional RS232 alarm connector available.		

Eyecom company policy is one of continuing improvement, therefore we reserve the right to change this specification without notice.